

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
690 Walnut Ave.St. 150  
Vallejo, CA 94592-1133  
(707) 649-5453  
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-012344**Date Inspected:** 25-Feb-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 645**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1845**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Gong Wai**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG COMPONENT**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector, Subhasis Bera was present during the times noted above for observations relative to the work being performed.

In process Inspection

Bay #14

This QA Inspector observed the following work in progress:

FCAW in the 1G position for the OBG Segment 12CW, weld No.SEG3006\*-002. The welder is identified as #201215. ZPMC QC is identified as Mr. Xu Tao. The welding variables recorded by QC appear to comply with WPS-B-T-2231-B-U2-F.

FCAW in the 1G position for the OBG Segment 12CE, weld No.SEG3006\*-001. The welder is identified as #202122. ZPMC QC is identified as Mr. Xu Tao. The welding variables recorded by QC appear to comply with WPS-B-T-2231-B-U2-F.

SMAW in the 4G position for the OBG Segment 11DW, weld No.SEG071B-005. The welder is identified as #045268. ZPMC QC is identified as Mr. Xu Tao. The welding variables recorded by QC appear to comply with WPS-B-P-2214-Tc-U4b-FCM-1.

SMAW in the 4G position for the OBG Segment 11DW, weld No.SEG071B-001. The welder is identified as #047864. ZPMC QC is identified as Mr. Xu Tao. The welding variables recorded by QC appear to comply with

---

## WELDING INSPECTION REPORT

( Continued Page 2 of 3 )

---

WPS-B-P-2214-Tc-U4b-FCM-1.

The QA Inspector observed that the ZPMC personnel is performing Free Hand Flame Cutting for Floor Beam FB3064 on Panel point PP112 at Counter Weight Side. The QA Inspector checked the length of the cutting area by Free Hand Flame Cutting and found less then 300mm.

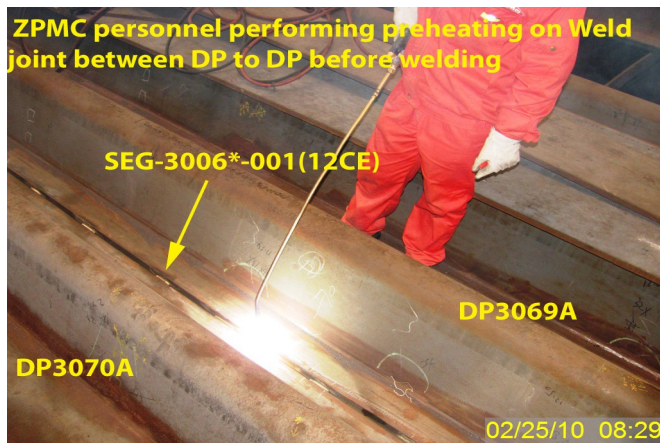
Ultrasonic Testing (A,B,C and D-Scan )

This QA Inspector performed Ultrasonic testing (UT) 10% of the area previously tested and accepted by ZPMC Quality control personnel. This QA inspector generated a (UT) report for this date. The members are identified as portion Deck plate to Edge plate Corner joint of segment 8AE. This Inspection was performed after ABF UT Inspectors performed UT of this joint. The result was recorded onto a data sheet according to rejection criteria of "D" Scan procedure that Caltrans QA and ABF QA have jointly filled out on this date.

The Weld Designation is as follows

CA048-004

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



### Summary of Conversations:

No relevant conversations

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 150-0042-2372, who represents the Office of Structural Materials for your project.

---

**Inspected By:** Bera,Subhasis

Quality Assurance Inspector

---

---

## WELDING INSPECTION REPORT

( Continued Page 3 of 3 )

---

**Reviewed By:** Patterson,Rodney

QA Reviewer